

Claims

Having thus described the invention, what is claimed as new and desired to be secured by Letters Patent is:

1. A device for extracting an arrow from a surface, the arrow including a head and shaft, said device comprising:

a plate;

a shelf extending from said plate, said shelf adapted to bear along a portion of an arrow shaft;

a block mounted to said plate in a path having a first position displaced from the arrow shaft and a second position bearing against the arrow shaft, the arrow shaft clamped between said block and said shelf at said second position;

a handle extending from said plate, said handle adapted for grasping by a user, whereupon a pulling force on said handle extracts the clamped arrow from the embedded surface;

said block movable to said first position to release the clamped arrow.

2. The device as claimed in claim 1 wherein said handle includes an imaginary axis generally positioned relative to a central, longitudinal axis of the clamped shaft, wherein a pulling force on said handle presents a similar pulling force along the arrow shaft.

3. The device as claimed in claim 1 wherein said block presents a free edge, said free edge bearing against the arrow shaft.

4. The device as claimed in claim 1 further comprising:
a slot in said block;
a post extending from said plate and into said slot, said block slidably movable along said post whereby to define said path of said block between said first and second positions.
5. The device as claimed in claim 4 wherein said slot is in a generally angular position relative to said shelf, whereby said path of said block between said first and second positions relative to said shelf is in generally longitudinal and diminishing lateral displacements relative to said shelf whereby to clamp the arrow shaft between said block and said shelf.
6. The device as claimed in claim 1 wherein said block path provides a friction fit engagement of said block with the arrow shaft at said second position to preclude movement of said block towards said first position.
7. The device as claimed in claim 1 wherein said block comprises:
a cam member having first and second positions;
means for biasing said cam member to said second position for bearing against an arrow shaft extending along said shelf, whereby to clamp the arrow between said cam member and said shelf.
8. The device as claimed in claim 1 wherein said block is biased towards said second position.

9. A device for extracting an arrow from a surface, the arrow including a head and shaft, said device comprising:

a plate;

first and second blocks mounted to said plate, said blocks having a first position displaced away from each other and an arrow shaft therebetween, at least one of said blocks movable towards the other to a second position for clamping the arrow shaft therebetween;

a handle extending from said plate, said handle adapted for grasping by a user, whereupon a pulling on said handle extracts the arrow from the embedded surface as clamped between said blocks;

at least one of said blocks movable to said first position to release the clamped arrow between said blocks.

10. The device as claimed in claim 9 wherein said handle includes an imaginary axis generally positioned relative to a central, longitudinal axis of the clamped shaft, wherein the pulling force on said handle presents a similar force along the arrow shaft.

11. The device as claimed in claim 9 wherein each block further comprises:
a slot in each said block;
a post extending from said plate and into each said slot, each said block slidably movable along said respective post whereby to define a path of each said block between said first and second positions.

12. The device as claimed in claim 11 wherein each said slot in each said block is angularly positioned to allow said path of each said block between said first and second positions to be in generally relative longitudinal and lateral directions relative to the arrow shaft therebetween.

13. The device as claimed in claim 12 wherein each said block path provides a friction fit engagement of each said block with the arrow shaft at said second position to preclude movement of each said block towards said first position.

14. The device as claimed in claim 9 wherein each said block comprises:
a cam;
means for biasing each said cam towards said second position and into contact with the arrow shaft placed therebetween.

15. The device as claimed in claim 9 wherein each said block is biased towards said second position.

16. A device for extracting an arrow from a surface, the arrow including a head and shaft, said device comprising:

a plate;

a first clamping surface extending from said plate, said first clamping surface adapted to bear along a length of the arrow shaft;

a second clamping surface mounted to said plate having a first position displaced from the first clamping surface for placement of an arrow shaft therebetween, said second clamping surface having a second position urging the second clamping surface towards the first clamping surface and towards an end of the arrow shaft, the arrow shaft clamped between said first clamping surface and said second clamping surface at said second position, at least said second clamping surface at said second position in a friction fit with the arrow shaft, whereby to maintain at least said second clamping surface at said second position, a pulling force on said plate extracting the clamped arrow from a penetrated surface.

17. The device as claimed in claim 16 further comprising a handle extending from said plate, wherein a pulling force on said handle presents similar forces along the arrow shaft.

18. The device as claimed in claim 17 wherein said handle extends from said plate at a position whereby a straight line pulling force on said handle transmits motions in a generally similar straight line along the arrow shaft.

19. The device as claimed in claim 16 further comprising:

a slot in each said clamping surface;

a post extending from said plate and into each said slot, each said slot slidably movable along a respective post whereby to define said path of said clamping surfaces between said first and second positions.

20. The device as claimed in claim 19 wherein each said slot of one surface is in a generally angular position relative to said other clamping surface, whereby said path of each said clamping surface between said first and second positions is in a generally longitudinal and lateral path relative to the other clamping surface and the arrow shaft therebetween.